



50 Years of DX-cellence

# BULLetin

No. 5

June 1998

## Next Meeting

7:30 PM, Thursday, June 11th at  
Jun's Electronics, 5563 Sepulveda  
Blvd. (Exit the San Diego Fwy (405)  
at Jefferson and proceed east to  
Sepulveda Blvd.)

## June Program:

**Tower and Antenna Tips, Tricks  
and Techniques from "The Man"**



**H**ow do he  
do it?  
They say he  
carries a bag of  
seeds. When  
you leave in the  
morning he's  
pouring water  
and when you  
come home,  
well, there it is:  
long, silver and

full of DX! Need to recable your Tristao,  
raise your Rohn? Don't miss Skip,  
KJ6Y's exciting presentation.

## K6NDV DX'er of the Year, KK6T Bags Clipperton

Reported by Roger Barkley, W6LAX



**O**ur venerable president and powerhouse  
DX'er, Will, K6NDV (left) received the  
"DX'er of the Year" plaque at Visalia. This aw-  
ard recognizes Will's achievements on the bands  
and even more important, his generosity to others,  
contributions to the club and to the art of DX.

The winner of this  
year's prestigious  
Clipperton Award is  
Terry Dunlap, KK6T  
(Right), who had 165  
countries confirmed during his first 12 months  
in our club. What is particularly impressive  
about Terry's accomplishment is that he proved  
himself to be a well-rounded DX'er, showing  
significant results on all modes: SSB, CW and  
RTTY. Our club can be proud to have a new  
member of Terry's operating skill, versatility and competitive spirit.



## SEXY SCDXC

## "Hunks In Trunks"

(See Page 6)

## "Jerry" Hagen, W4IX

By Jan Perkins, N6AW

**On the morning of May 18 the DX community lost one of its most ardent supporters. Jerry Hagen, W4IX, ex-WA6GLD, N6AV, AD4MQ, passed away after a long battle with cancer.**



First licensed in 1959, Jerry's in-  
terest soon turned to DX and by the  
end of the next decade he was on  
the honor roll. DX contests became  
one of his passions and joined by  
WA6EPQ (N6AR) they operated

(Continued on Page 5)

### Also in this issue...

President's Soapbox..... Page 2  
Packet Derby..... Page 2  
1998 Programs..... Page 2  
Propagation..... Page 3  
QSL Corner..... Page 3  
Guglielmo Pookah..... Page 4  
Heard and Worked..... Page 8  
Ham Puzzle..... Page 9  
Solar Eyeball..... Page 10  
Convention Gallery..... Page 11



## President's Soapbox

by Will Angenent, KN6DV



**H**ello all. It has been too long since the last meeting. Luckily, we had Visalia in between. We have

a lot to talk about, looking back at a fantastic convention.

It would be impossible to name all of you who helped or was involved. I am sure I will forget a few of you. So, herewith, "thank you all very much. We had a lot of compliments from visitors, program presenters and vendors. The raffle prizes were great. Thanks to all who made donations for the prizes. Looking forward to hearing all your comments at the meeting.

Bob, K6ZZ and I went to Dayton and saw a few other club members and old friends there. We had a great time.. We heard a lot of nice compliments about the Visalia convention.

Just before we went to Dayton, I managed to work an overall new one on 3 band/modes, 3B7RF. Looks like some of you worked them from 10 through 80. Congratulations!

I am glad that all is back to normal. We had an eventful two months!

Hope to see you all at the meeting and if you have the time, come a little bit earlier and have dinner at Shakey's.

...Will, K6NDV

The Deadline for the July  
BULLETin will be  
June 30  
Please submit as early as  
you can!

## Packet Spot Iron Cage Free- For-All Derby

by Harvey Shore, K6EXO



**S**eems as if the sunspots have resulted in a good DX month. Lots of stuff on the air and lots of spots. Here are the results of

May. Hurray hurray, the month of May - outdoor frolicking and fun today! ...gulp! ...ed.

Spotter	Spots	Score
N6RT	271	738
WA6TLA	62	266
W6LAX	107	208
WU6T	49	206
KR6C	83	171
K6CU	57	151
K6YRA	24	118
W6AUG	45	97
KK6T	22	96
KG6OK	34	69
N6KZ	66	53
K6GXO	18	50
K6EXO	14	47
K6FG	15	45
N6UC	19	40
N6RV	6	39
KJ6ZH	4	36
W6RT	19	33
K6WS	16	32
W6KK	43	31
W7RF	10	31
W6ZH	6	23
N6ED	4	23
W6EA	6	20
K6RO	6	19
W6SMD	14	18
N6JZ	9	17
W6EJJ	7	17
WK6E	3	17
K6YUI	4	16
W6YY	9	15
W6RW	5	15
KR6Q	8	14
K6OHM	8	13
K6FR	2	12
N6ZAE	2	12
W6BL	7	11
N6OU	4	11

Spotter	Spots	Score
NQ6N	2	11
W6FW	3	-4
K6EXO	1	9
KC7QN	1	9
N6IC	2	7
KC6T	3	6
K2PLF-6	4	5
K5KT	3	5
AC6SN	2	3
KJ6Y	1	3
N6HC	1	2
AJ6A	1	1
K6JW	1	1
W6OES	1	1
WA6WZO	1	1
W3SE	1	0

*(The Packet Derby automatically assigns points to stations spotting DX on the packet network. Scoring updates are available on the club web site. High-point winner will receive a prize...ed.)*

## 1998 Programs

Harvey Laidman, W8DX



**T**his month we have some terrific prizes "tuned" to resonate with Skip's antenna presentation. Larry, K6RO, has assembled an MFJ 259

Antenna Analyzer (the deluxe model with built-in resistance meter), antenna switches, baluns and accessories.

You've got to buy tickets to win, and the raffle proceeds go right back to you by way of your club.

I have been enjoying editing the *BULLETin* for the past year and a half. There is a certain freedom in knowing you have just a few readers, and I've been content to page through it when I need a "personal chuckle." Problem is, my time is limited and I have other duties to perform for the club. As I approach the deadline for the *BULLETin*,

(Continued on page 4)

## MINIPROP PLUS Predictions

by Shel, W6EL



These MINIPROP PLUS predictions for the five prime HF bands show the times when propagation is expected to be best from Los Angeles to several locations that are expected to be active during the coming month. Other times are possible, but with weaker signals or lower probability. Openings are not expected on bands that are not listed. A solar flux of 100, corresponding to a sunspot number of 47, and an average geomagnetic field are assumed. Sunrise/sunset times are at the DX location. All times are UTC.

### DX Location:

### Band/Best Times:

TF Iceland - 6/15 to 6/21  
Beam 28 degrees  
Sunrise/sunset (on 6/18) 0258/2344

20: 0130-0830.

HB0 Liechtenstein - 6/22 to 6/26  
Beam 32 degrees  
Sunrise/sunset (on 6/24) 0333/1915

20: 0100-0630.

7X Algeria - through October  
Beam 46 degrees  
Sunrise/sunset (on 7/4) 0452/1857

40: 0400-0430.  
20: 0100-0700

3B9 Rodriguez - Late 1998  
Beam 353 degrees  
Sunrise/sunset (on 11/30) 0102/1408

40: 0030-0100 and 1400-1500.  
20: 1600-0100. Also long path 0030-0300.  
15: 1730-1900

A5 Bhutan - Early 1999  
Beam 333 degrees  
Sunrise/sunset (on 1/30/99) 0051/1135

80: Around 1400.  
40: 1200-1500.  
20: 0000-0230. Also long path 0030-0130.

(Please see "Solar Eyeball" on page 10)

J45KLN

Via SM0CMH, Goran Lundell, Algovagen 11, SE 13336, Saltsjobaden, Sweden

JT1X

Via HA0HW, Lazlo Szabo, Box 24, Puspokladany 4151, Hungary

KH2D

Via K8NA

KH4/N9KX

Via DK9KX, Hans W. Hannappel, Eschenbruchstr 1, D-61069 Koln, Germany

RS0F

Via W3HNK

TX8A

Via FK8HC, Franck Peyitjean, Box 7636, Ducos 98801, Noumea Cedex, New Caledonia

V26TT

Via K5TT

V63DC

Via NG7S

VP6DB

Via Ava Brown, Box 13, Adamstown, Pitcairn Island, via New Zealand

ZD9II

Via ZS5BBO, Edwin Musto, Box 211032, Bluff 4036, South Africa

## QSL Corner

by Al, NS6B

3B7RF Via HB9RF, USKA  
Section, Zug, Postfach  
Box 37, CH-6319  
Allenwinden, Switzerland

C40M

Via 5B4WN

CY9RF

Via K8RF

ER5DX

Via Victor Rudenko,  
Box 7, Chadrlunga,  
278700, Moldava

4J3M Via Yuri Frolov, Box 1,  
Mingechevir, 374311,  
Azerbaijan

ER9V

Via ER1DA, Kishinev,  
MD 2071, Moldava

4K80ADR Via 4J9RI

FM5JV

Via F5LNV

5H3MZ Via 5Z4YQ, Marinig  
Renato, Box 174,  
Malindi, Kenya

FT5WG

Via F6APU, Andre  
Jungbluth, 4 Rue Des  
Tulippes, F-67380,  
Lingolsheim, France

A35FT Via DL7FT

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Dot... dot... dot...

By Guglielmo Pookah, E1EIO



**W**ell, Jerry, K6AV finished the **LA Marathon**. His **5:41** score beat last year's. S'far as the **Pook** knows, the only **DX'er** to do so. "Around the **five-mile mark**, I start looking around for a **cigar and a kielbasi sandwich**," says **Mr. Anonymous DX'er... Rich, WU6T** received a **DX Hog** award from **Bob, W6RJ** at the convention. "The H40 just happened to be on.

No one was calling, so I thought I'd pick up another 'Q,'"

**Rich** reasoned,

"so sue me!"... **Charlotte, KB6FXS**, (Right) received a **SCDXC t shirt** at Visalia, recognizing her contribution to the convention committee. "Just what I wanted," **Charlotte** enthused, "it matches my other **SCDXC t shirts**"...

**Herb Rosenberg, KG6OK** (Lower

Right) won the '950SDX. "It's not so much the DSP, or the built-in filters," **Herb** mused, "it's the **hernia** I got carrying it to the car..."

**Fred Laun, W3ZO** (Left) won the CW copying contest. "I can't believe I beat **Jim, W6YA**,"

**Fred** told the **Pookster**, "he's one of those guys who can tell what you're saying even though your

mouth is full of stuff and the drill is whining. He practices copying through **QRM** every day!"... The **condemned man**

ate a **hearty meal**... I know it's **no excuse**, but your **humble Pook-er** could have won if it weren't for an **ear flopping over** in the middle of the test!...

Dot'z'all, folks!

...Gugli

(The *BULLETin* is not responsible for Pookah's alleged observations. Gugli's portrait by 'Drew Duncan' exclusively for the *SCDXC BULLETin*.)



## 1998 Programs

(Continued)

I'm quaking with anxiety because it looks like an impossible job. After forty hours or so, it's in Al's hands and I always tell myself "it wasn't that bad" and the cycle starts again.

Haven't quite made up my mind, but the July issue could be our "final issue," and the *BULLETin* will have to "sleep" until the next victim... er, editor is found.

One of my Vice-Presidential duties is the yearly Pizza Bash. It'll be the August meeting, and I'm going to try for a program that is at least half as good as Will's "Old Timer's Night" last year. It will be at the Shakey's across from Jun's. We all know how to get there and they've been great hosts. If I can finish this %\$#@ *BULLETin*, I'll see you at the meeting!

...Harvey, W8DX



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# "Jerry" Hagen, W4IX

(From Page 1)

the ARRL CW DX contests each spring in the late 1960s and 1970s at W6ANN (W6BA). His son, Tim, was born about the time the 5BDXCC started and Jerry would tune 80 meters during the 2 AM feeding. By 1971 he received award number 27.

Jerry was a man who, it seemed, never slept. After work he would be squiring his daughter Lisa to cheerleader practice, meeting with his cub scout pack, and late at night writing his column for CQ (he was the DX editor for several years).

Although he would make an occasional phone contact, Jerry was primarily a CW operator and could usually be found on the low end of twenty. Jerry pursued and received most DX awards, and particularly enjoyed operating in the WAE CW contest, as passing crisp QTCs demanded extra operating skill.

In 1981 Jerry's job took him to Charlotte, NC for 5 years. When he returned to California Jerry resumed operating contests at W6BA. He also began building custom yagis out at Bill's place. I remember the afternoon we built and installed the 5

element 15 meter yagi and were covered with dust and sweat; his smile and the look of immense satisfaction on his face.



In 1987 Jerry developed colon cancer. After the surgery and subsequent treatment was successful he told his wife that he would again one day climb a 100-foot tower.

Five years later after we had put up 120 feet of Rohn with a gin pole at Bill's Jerry and I rested on top for a moment he related that comment to his wife and there

was that smile.

His career took him back to Charlotte in 1993 and Jerry decided to get a W4 call and start over in the DXCC. He had reached 100 or more countries on eight bands and was approaching the honor roll when a malignant tumor was discovered on his pelvis.

Jerry was an upbeat, outgoing person who was a joy to be around, and the best friend one could possibly hope for.

(Jerry also served as SCDXC president and edited the BULLETin ...ed)



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## DX Accomplishments

(return to: Bruce Horn, 4225 Farmdale Ave., Studio City, CA 91604)

Cut here

Call \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_

Please complete the following based on your **confirmed**, mixed-mode country or zone totals:

DXCC Totals: Active Countries (329 max) \_\_\_\_\_ Total Countries (including deleted) \_\_\_\_\_

Are you currently on the Honor Roll ? ☐ Yes ☐ No 5BDXCC ? ☐ Yes ☐ No

Low Bands (Active Countries Only): 160-meters \_\_\_\_\_ 80-meters \_\_\_\_\_ 40-meters \_\_\_\_\_

WARC Bands (Active Countries Only): 30-meters \_\_\_\_\_ 17-meters \_\_\_\_\_ 12-meters \_\_\_\_\_

WAZ Basic Award (40 Zones) ? ☐ Yes ☐ No

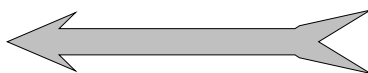
Confirmed Zones: 160m \_\_\_\_\_ 80m \_\_\_\_\_ 40m \_\_\_\_\_ 30m \_\_\_\_\_ 20m \_\_\_\_\_ 17m \_\_\_\_\_ 15m \_\_\_\_\_ 12m \_\_\_\_\_ 10m \_\_\_\_\_



# Hunks in Trunks

**T**hey're hot! They're gorgeous, and they're technically competent! Yes, they're the Southern California DX Club **Hunks in Trunks**. These

muscle bound beam twisters mix rippling flesh with DX daring-do. Eat your heart out, Fabio!

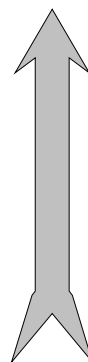


Active Windy City DX'er KD9V (Left) strokes his paddle under a simulated tanning bed. Here he models the "Six Flags Flapping" swimsuit by Honoria of Guelph, available at fine stores for \$69.95.

"Deltoids" Dan, W7RF, (Below) is "amp-ed" up for the contest. Says significant other and personal trainer, Ilke, "The natural oils keep him loose and run up his 'Q' rate." Here, "Delts" is resting, waiting for his afterburner to cool down. He wears the "Pert, Punky, Pattern" silk boxers by Lucille of Duarte, available at Fred Segal (\$19.95).



Skip "Hunky Hal" Bolnick, KJ6Y, (Above) gets those bulging biceps from climbing towers. Seen here in his normal outfit, climbing belt, hard hat, plastic flip-flops and Giorgio Armani "Silk Vermillion" trunks (Bloomingdales, \$59.95), he is about to retool a Tail Twister™. "Hal's" Spouse, Marilyn "Irresistible" Bolnick, N6GIL says, "Hal once climbed a 105 foot tower with a fourteen element log periodic in one hand and a 350 pound Telrex Rotor in his teeth. What a man!"

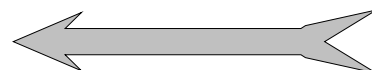


# Hunks in Trunks

(Continued)



Enthusiastic DX'er, "Outlaw" Harv, W8DX (left) reclines as he snags a hard one using antique gear. No one was willing to provide a quote about the "Outlaw." "Off the record," said an Unidentified Onlooker of the hairy hunk, "I'd hate to meet up with him on a dark night during the WAE contest on forty meters." He models the "Black Widow Soft Silk Speedo" thong suit by Tuvache'. (The Broadway (\$79.97, used))



"Markie" Mark, K6FG (Right) operates Maritime Mobile. "Markie outgrew his shack," reports spouse, Chris, "when he moved all that weightlifting equipment in there." The "Lad with Lats" pumps iron most of the day, pumps his McElroy Teardrop key the rest. Mild-mannered Markie is known for his gentlemanly demeanor on the bands, but why be anything else when you got a build like that? He is wearing the "Commodore's Choice in Chiffon" trunks with integrated, reversible lining by Roxanne Pour Celain', at better Wal-Mart stores (\$14.95)



Cut here

**Membership, New or Renewal** (return to Harvey Shore, 6433 Pat Avenue, West Hills, California 91307)

Call \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_

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SCDXC Web Site: <http://www.primenet.com/~scdxc/>

June 1998 • SCDXC BULLETin • 7

# Heard and Worked

by Mark Weiss, K6FG



*Signals don't get to the sunny shores of Southern California like they get everywhere else. Sometimes, a band is open for just a few minutes. Sometimes,*

*a rare country appears at a crazy time or frequency. Here are selected reports from local stations. Send your report for June to the Editor.*

## Date Time Mode DX

### **160**

4/18	1247	CW	FO0FI*
4/24	1038	CW	FO0FR*

### **80**

4/2	1343	SSB	BA4TA
4/8	1329	SSB	H40AB*
4/8	1337	CW	H40AA*
4/10	1349	SSB	H40AA*
4/15	1204	SSB	FO0FI*
4/15	1227	SSB	UA0CAA
4/15	1237	CW	FO0FI*
4/16	1358	SSB	FR5DX
4/22	1216	SSB	FO0FR*
4/23	1028	CW	FO0FR*
5/24	0500	CW	H75A*

### **40**

4/3	1349	CW	H40AA*
4/7	1214	SSB	H40AB*
4/8	1235	CW	3D2WC/R
4/9	1403	SSB	H40AA*
4/10	1116	CW	H40AA*
4/13	0235	SSB	3B7RF*
4/15	1252	SSB	FO0FI*
4/16	1327	CW	FO0FI*
4/20	1309	CW	FO0FI*
4/22	1239	SSB	FO0FR*
4/24	1207	CW	FO0FR*
5/10	1352	CW	3B7RF*
5/14	0250	SSB	3B7RF*
5/24	0159	CW	H75A*

### **30**

4/7	0221	CW	H40AA*
4/7	1205	CW	H40AA*
4/10	0601	CW	H40AB*
4/20	0158	CW	FO0FI*
4/20	1421	CW	FO0FI*
4/25	0842	CW	N2NL/KH2*
4/26	0103	CW	TU2XZ

4/26	0236	CW	FO0FR*
4/30	1314	CW	YJ0AWP
4/30	1343	CW	3D2QB
5/6	1222	CW	KH8/N5OLS
5/14	0354	CW	3B7RF*
5/24	0240	CW	H75A*
5/28	0119	CW	V26GG
5/28	0121	CW	VP5/W5ASP

### **20**

4/3	1517	SSB	EK7DX
4/4	1424	SSB	XUX0*
4/6	0517	SSB	JY4MB
4/7	1201	SSB	H40AA*
4/8	0347	TTY	H40AA*
4/9	0340	CW	H40AA*
4/9	2350	SSB	S08R
4/15	0013	CW	FO0FI*
4/15	0415	TTY	ZK2CK
4/16	1423	SSB	FT5Z/FR5HR
4/18	0231	SSB	FO0FI*
4/22	0422	CW	FO0FR*
4/24	0425	SSB	FO0FR*
4/28	1416	SSB	FO0FR*
4/29	1424	SSB	S21J
4/30	0202	CW	A45XR
4/30	0258	SSB	D44BC
5/10	2112	TTY	TU2XP*
5/12	0359	CW	3B7RF*
5/13	0514	CW	FT5XN*
5/15	0349	TTY	JY9QJ*
5/22	0135	SSB	H75A*
5/22	1314	TTY	T30RW*
5/24	2210	TTY	5X1T

### **17**

4/2	1412	SSB	HZ1AB*
4/2	1600	SSB	AP2JZB*
4/4	1522	SSB	TA2LZ
4/4	1556	SSB	SU3AM
4/4	1558	SSB	TF3FK
4/4	1607	SSB	JW5NM
4/4	1620	SSB	9K2ZZ
4/4	1629	SSB	JY9QJ*
4/4	1749	SSB	HZ1AB*
4/4	1833	CW	SV2BBJ
4/4	1846	CW	SV2DFA
4/4	1849	CW	3D2CB/R
4/4	1914	SSB	OD5NJ
4/4	1921	SSB	5X1T*
4/4	2147	CW	H40AB*
4/5	0209	SSB	H40AA*
4/5	1616	SSB	AP2JZB*
4/5	1625	CW	EX8MZ
4/5	1651	SSB	Z37GBC
4/5	1949	SSB	5X1T*
4/6	0510	CW	H40AA*
4/8	0221	CW	JT1Y*

4/9	1526	SSB	9V1AG
4/13	1848	SSB	4S7BRG
4/15	0213	SSB	FO0MIZ*
4/18	1715	SSB	HB0/HB9LEY
4/19	0139	SSB	FO0FI*
4/19	1459	SSB	4L8A
4/19	1731	CW	A45XR
4/20	0401	CW	FO0FI*
4/23	0159	CW	FO0FR*
4/24	0229	SSB	FO0FR*
4/29	0404	SSB	VK9LZ*
5/11	0508	CW	3B7RF*
5/12	0351	SSB	3B7RF*
5/15	0428	SSB	3B7RF*
5/15	1425	SSB	TA1ZL
5/15	1915	SSB	MD/N0KV
5/23	1738	CW	H75A*
5/23	2055	SSB	H75A
5/24	0252	CW	JT1X
5/25	1609	SSB	KS4Q/YS9*
5/25	1613	SSB	VP5/N2LH

### **15**

4/1	2144	SSB	FW2EH
4/3	0110	SSB	XUX0*
4/3	0148	CW	H40AB*
4/3	0151	SSB	H40AA*
4/3	1555	SSB	9H1EL
4/4	1755	SSB	Z37GBC
4/14	0313	TTY	YJ0ADJ*
4/15	0222	SSB	FO0FI*
4/17	0050	CW	FO0FI*
4/17	0324	TTY	FK8VHN
4/23	0127	SSB	FO0FR*
4/24	0043	CW	FO0FR*
5/22	1410	CW	H75A*
5/23	2323	SSB	H75A*
5/24	0353	TTY	T30RW*
5/24	1715	TTY	D2AI

### **12**

4/2	0054	SSB	FW2EH
4/5	0113	CW	3D2QB
4/8	0217	SSB	3D2CB/R
4/9	0256	CW	H40AA*
4/11	1800	SSB	EA9IE
4/14	0134	SSB	YJ0ADJ*
4/15	0002	SSB	FO0MIZ*
4/19	1555	CW	F5BNZ
4/20	0128	SSB	FO0FI*
4/20	1940	CW	ZB2FK*
4/23	0018	SSB	FO0FR*
4/23	0119	CW	FO0FR*
5/23	1537	TTY	9M2KU
5/23	2316	SSB	H75A*
5/25	1616	SSB	VP5/N2LH*

(Continued on Page 9)



## Heard and Worked

(Continued)

10

4/5	0158	SSB	H40AA*
4/11	2238	SSB	SM3JLA
4/16	0332	SSB	FO0FI*
4/22	0057	SSB	AH8LG*
4/22	2350	SSB	FO0FR*
5/24	0029	SSB	H75A*

### \* QSL Routes

3B7RF	HB9RF
5X1T	ON5NT
AH8LG	KS6DV
AP2JZB	K2EWB
FO0FI	K6SLO
FO0FR	K6SLO
FO0MIZ	VE3HO
FT5XN	F6PEN
H40AA	OH2BN
H40AB	VK9NS
H75A	N5FTR
HZ1AB	K8PYD
JT1Y	I0SNY
JY9QJ	DL5MBY
N2NL/KH2	W2YC
T30RW	ZL1AMO
TU2XP	F6AXP
VK9LZ	N0AH
VP5/N2LH	N2LH
XUX0	XU2C
YJ0ADJ	DJ2EH
YJ0AWP	JA1WPX
KS4Q/YS9	KS4Q
ZB2FK	G3RFX

(Thanks to K6FG, WU6T, K6YRA)



W6KK, K6VO and W1ICP

## Ham Puzzle

by Milt, W6RJO



### "DX Schedule Via Satellite"

As each north-south satellite pass shifts its longitude 30 degrees, the total shift back to the max signal strength orbit is 360 degrees for a stationary earth. The bird would then make 360/30 or 12 orbits at 1.5 hours per orbit, which amounts to 12 times 1.5 or 18 hours.

However, as the earth moves, it is necessary to find when it and the satellite again coincide for maximum up-down signal strength. At 18 hours for the bird and 24 hours for the earth to each make a longitudinal rotation of 360 degrees, a little counting shows that they will coincide once every 72 hours. (Like a clock minute and hour hand coincidence.) The satellite will have made 48 north-south orbits as the earth made three revolutions before a coincidence. So "V.H. Ham" must wait 72 hours to set up the sked if the DX is on time.

Wow! Milt stumped the experts - none of the entries matched his answer. Wanna fight? Grab Milt at the meeting. **Elliott, Keith and Pete** who won last month - don't despair, your prizes for last month's win are "in the mail." I just couldn't get to the bank, the dog ate my checkbook. ...ed

*Here is the June Puzzler. Good luck:*

### Adjustable Hop Yagi

V (for veteran) H. Ham, after many years of research and development in his garage lab, has perfected an "adjustable hop" (ground-ionosphere-ground) yagi beam. His antenna can preset each hop span distance from his QTH to the DX station. He does it by cleverly scissoring the beam elements, adjusting their lengths with individual leadscrews, and varying the beam elevation angle. He hasn't patented it yet, but presumes upon the integrity of SCDXC members not to divulge his idea. He worked the Heard Island DX-pedition from Los Angeles a number of times getting 5/9 +20db reports consistently. He thinks he got the idea for the beam from his wartime experiences:

During the "big one" (World War II) he served in the "CBI" (China, Burma, India) theatre where he helped deposit gasoline caches at strategic sites along the "hump" route, by and for transport aircraft, so as to minimize the amount of aviation fuel used. The range of these aircraft was about half the hump route distance (a circuitous 3000 miles), so that gas dumps were needed to fly the latter half of the distance. After much analysis, it "proved out" that for minimum fuel consumption, the first dump was half way (1500 miles), the second, an added 1/3 of that (1500 + 1500/3), the third was an added 1/5(1500/5), the fourth was an added 1/7(1500/7), etc.

These dump distances imply that stockpiles of gas are built up at a particular dump using fuel from the preceding one, then forward to the next one and building it up, etc.. "V.H.H." believes this scheme suitably translated is necessary in his design to get the super reports.

He applied the preceding by adjusting his antenna hops to span the distance between LA and Heard (12,000 miles) to give him the super reports. How many hops did he need to get within 150 miles of Heard?

(Send your solution to the BULLETIN Editor, email, post, FAX okay)

# Solar Eyeball

By Lee Wical, KH6BZF

*(I have always been an admirer of the KH6BZF reports, not to take anything away from our estimable Shel, W6EL. I asked Lee to provide a report this month and was surprised to hear that he has a history with the SCDXC BULLETIN. Here is Lee's in-depth analysis of upcoming band conditions that I believe you will find extremely useful. ...ed.)*

**T**he SOLAR FLUX (SF) is expected to maintain a slow rise next peaking on/about 04-06 June and centered around 22-28th June. Then levels will fall back based on 27.5-day and 55-day rotation(s) data. The SOLAR OUTPUT activity outlook during this forecast is expected to continue generally LOW with an occasional MODERATE to perhaps slightly higher solar levels. Unpredictable outputs, from time to time, may be expected through out this forecast period due to unexpected GEOMAG occurrences. The GEOMAG activity will be generally QUIET to UNSETTLED with an occasional ACTIVE to scattered, unpredictable STORMY conditions near the end of June. This is due to many perturbations, i.e. solar disturbances, Coronal Hole activity, solar winds, et.al. One must listen to WWV/WWVH announcements for possible (CME) activity at any time which may raise GEOMAG levels to ACTIVE to STORMY conditions, i.e. K-indices of 4, 5, 6 and higher. This is based on recurrent solar regions returning to the visible solar disk. Polar and Auroral area propagation may NOT be expected during this period on most bands. High band openings may occur at any time now through early Fall 1998. If no increases in Geomagnetic Field Activity occur, expect some excellent transmission periods. However, any unpredictable disturbances, i.e. flares, Coronal Hole activity, Coronal Mass Ejections's (CMEs) and other solar perturbations, etc. will again disrupt trans-polar transmission paths. Again, these solar perturbations may be expected at any time and may greatly reduce these forecasts.

## BAND-BY-BAND PROPAGATION EXPECTATIONS:

2 meter and above bands, perhaps an Aurora (AU) may occur when K-indices are in excess of the value of 4, 5 or higher. This due to a Coronal Mass Ejection (CME) which we've discussed before. Seasonal activity increases are expected to continue during June with increased seasonal Sporadic-E (Es) and a few AU openings.

6 meters again, is expected to open now and then with possible, occasional N-S T-E, tropo, F2 openings. Especially be alert on 6M during Es openings this months. Several Sporadic Es openings occurred during late May, last month. More may be expected this month. Check W-E paths for intercontinental propagation paths as early as 8AM (your local time), then let you antenna follow the Sun! If possible check frequency 28.885 MHz used as a voice "orderwire" for 6 meter activity and tip-offs for possible openings. Check N-S around noon time at your QTH and check toward the NW and SW for Asia and Pacific area openings.

A resource via the internet is the VHF reflector by W6YX. It is a good source of tip-off information as well as a vehicle to send openings to others regarding your VHF propagation observations. It's access is Subscribe/Remove requests via: [vhf-request@w6xy.stanford.edu](mailto:vhf-request@w6xy.stanford.edu)

Another resource is the Juliet Alpha Cluster: <http://www.hitnet.or.jp/JAC/JACIndex.html>

10-12 meters is expected to continue generally POOR even with occasional solar flux levels above 100 and the Geomagnetic Field Activity remains QUIET. This is due to seasonal propagation as the northern hemisphere is into the Spring to Summer transisition from spring equinox to summer solstice (Sunday, June 21, 1998 which is also FATHER'S DAY). With K-indices <less than 2 and running Alpha index <less than 2, watch for occasional weak N-S hemisphere transequatorial openings and occasional W-E short skip openings early in the morning. If Solar Flux levels rise to greater than >100 and the Geomag Field remains QUIET, some FAIR and strange paths may be observed. I always say... ..."check 10Mtrs at 10AM...!"

15-17 meters some occasional fair DX openings may be expected with possible inter-hemisphere openings over the daylight path. Some E-W openings and N-S openings may be expected when greater than <100 Solar Flux levels are experienced. The 15M band may be expected to be the SECOND best DX band. These DX bands will be much less productive than 20 Meters will be.

20 meters is your BEST DX band for world wide propagation. Check band from just prior to sunrise, toward the east and polar path through sunset and into the early evening hours toward the west. As these days of daylight lengthen, up to 21st June and beyond, this band will remain open longer, perhaps into the night and occasionally throughout the night until after dawn (toward the west) with a DX path to somewhere. Check the southeast path after sunset for an occasional path into Asia and the Pacific areas.

30 meters will have band openings to somewhere sometimes.

40 meters opening best time on the early afternoon and evening for local and some longer path openings. Watch for

# Convention Gallery



Left:  
John, K6AM,  
Hosts "DX  
Jeopardy"



Left: Jim,  
N6TJ checks  
in.



Right, Zorro,  
JA1AJT,  
ready for his  
presentation



Neil and  
Eileen  
prepare to  
summon  
their  
server.



Elliott, WA6TLA de-  
scribes his monobander



Fried dem-  
onstrates  
Cleon's six-  
meter  
antenna.



Below: Dan, W7RF with Ilke



The Don Bostroms



Red, W6 Anita Ekberg

## Solar Eyeball

(Continued)

some DX openings several hours before Sunset, toward the east; until just after Sunrise, toward the west. From mid-night to an hour or so after Sunrise there may be some fair to good openings toward the west. But, QRN, QRM and static levels will make this band unusable most times. Good for local chats and Field Day work. So, now is the time to work on your killer low band antennas to get ready for next fall!

75/80 meters will also be a band to be placed on the "back burner" until next fall when QRN and QRM reduces.

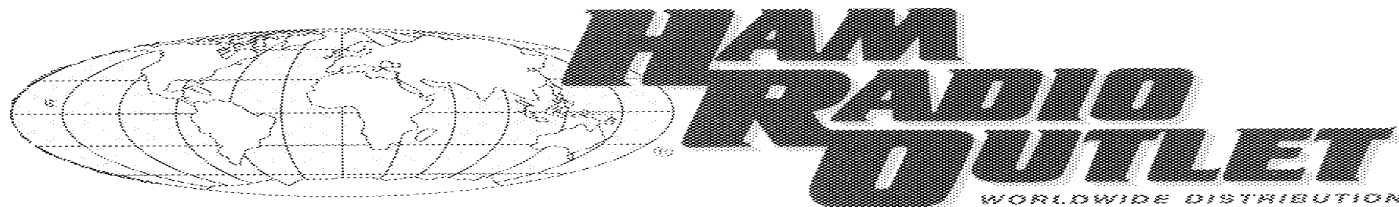
160 meters is to be placed on the "back burner" until next Fall as well. So, again, work on those Delta loops, loaded towers, sloopers, four-squares antennas and low noise loop-receiving antennas in anticipation of next fall's low band DX season.

Note: Always monitor WWV and WWVH at -18 and -45 minutes after each hour for the NOAA/SEC solar forecasts for data.

....KH6BZF



*The SCDXC thanks the following whose support makes it possible for us to offer an outstanding selection of prizes each month.*



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